

Proposal for processing of All-Solid-State battery raw materials - Mechanochemical synthesis by High G/High-speed Planetary Mill

Keywords: **Solid electrolyte synthesis, mechanochemical, scale up, high volume processing, high energy, reduction of processing time**

What is possible with Kurimoto's High G?

- ① **Proposal of production size machines**
(manufacturing of large size models)
- ② **Applying of high energy to raw materials by larger size**
(shorten of production time)
- ③ **Verification by testing with a middle size model is possible**
(middle size testing mill is available)

Large size model/BX844 (exterior view)



With Kurimoto's High G
dry mechanochemical synthesis and pulverization of solid electrolytes
for All-Solid-State batteries and their mass production is possible

High G/High-speed Planetary Mill line-up

BX254 (exterior view)



BX844 (exterior view)

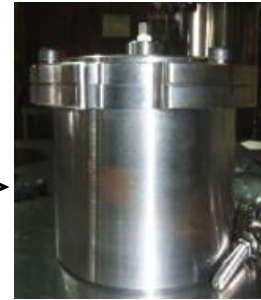
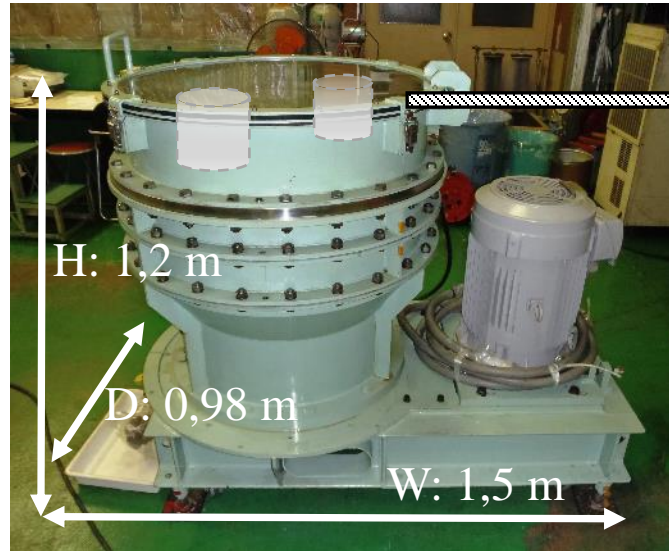


Model	BX254	BX384	BX844
Capacity	0.2 L	0.5 L , 2.4 L	20 L
No. of Jars	4	4	4
Orbital Diameter	0.25 m	0.38 m	0.84 m
Motor Capacity	1.5kW	11~15kW	75~150kW
Direction of Rotation	Forward	Forward / Reverse	Forward

Exterior of the BX382 testing mill and exemplary testing conditions

■ Structure of the High-speed Planetary Mill 「High G」

● Exterior of the testing machine

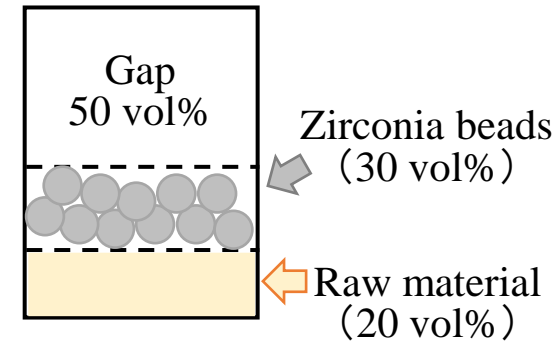


Jar (exterior view)



Jar
(inside view with beads)

- Verification in an inert gas atmosphere is possible
- A forced lubrication system enables continuous long-time operation
- Testing mill is available for rental



● Specifications

Motor Capacity	Direction of Rotation	Acceleration	Jar Capacity	Jar Inside
15 kW	Counterwise	40 G	0,5 L x 2	Zirconia lining